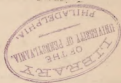


#1
An Essay
on
Kine Pock

Rudis, Indigutague male

and



+ Incubation, was not I believe, practised in Europe, before the visit
of the celebrated Lady Mary Wortley Montague, from Constantinople
about the year 1720. — The favour lavished upon the elder Digne
by the magnificent Catherine the second, furnish a painted example of
value attached to it.

The s
-tion. My o
have been no
to make its
this method
avowed to
it is just an
man, an on
To preserve
Pock, it is as
induced by
number of d
was found
was this too
by calculation
has more
than before
more in the
incubations.
am astonished
its principles are
1st It is done in
hours after birth
2^d Better made
3 It is as easy
as, with authentic

Introduction.

The subject of the ensuing essay, early solicited my attention. My opportunities of witnessing the disease, of which it treats, have been numerous; to the experience of each successive day, served to make its importance more manifest. Previously to the discovery of this wonderful Prophylactic, the Small Pox was one of the broadest avenues to the grave. It is already divested of almost all its terrors; & it is presumable, that in a short time, it will be known only by name, among us.

To appreciate properly, the advantages, we reap from the *Living Pock*, it is necessary to be acquainted with the extent, of the mortality, induced by the Small Pox. In the City of London alone, the number of deaths from it was truly alarming. Even Inoculations, was found to be inadequate, to arrest its ravages. So far, indeed, was this from being the case, that Baron Binsdale, has proved, by calculations, of unquestionable accuracy, that its victims have been more numerous, since the general practice of *Inoculation*, than before its introduction. Very few of the physicians in Europe,

before the ¹⁸th & more in this country, of any pretensions to character, continued to practice from Constantinople. The superiority of Vaccination, is as very obvious, that I on the *elder Doctor* am astonished, that any should prefer inoculation - the following are ^{some} ~~few~~ examples of its principles & advantages.

1st It is dangerous at all seasons & ages. I have known it perforated a few hours after birth.

2^d Further medicines nor confinement are necessary in 99 cases out of 100.

3 It is by no means a painful, & very seldom, a dangerous disease. Only one, well authenticated ^{case}, can be adduced of its fatality, which occurred to Dr.

Doctor Ford
4 H. new pres
Bar

The new
The map of each
operation has a
to express their
himself, conspi-
cuous, costs be
others, have blaz-
very much ob-
for a certain in-
to be inserted
we can only see
that so intricate

It seems that
has familiar
They observed the
upon the har-
Pope. It seems to
has permitted,
it has familiar-
received for D.
^{representing} itself, he per-
from there alone
the human con-
Pope & have per-
tensions to the
tion, & distract

Doctor Rosselli.

It now produces deformity, & is a more certain prevention, than Small Pox.

The reverse of all this is true with regard to Small Pox. The mass of evidence that has been brought forward to prove its benign operation, has almost silent opposition. Some few however still continue, to express their hostility to it. Among whom, a certain Smyth, has rendered himself conspicuous, for harshness of opinions, & violence of abuse. Little better could be expected, from the author of "A tour in America." Several others, have blazed for a moment in their hatred to oblation. But I was very much surprised, to observe, that Dr. Monro, who is equally celebrated for acute investigations, & profound erudition, should suffer his name, to be inscribed on the list of its adversaries. Such however, is the fact, & we can only ascribe this deviation, from his accustomed correctness, to that eccentricity, ^{which} sometimes visits to genius.

It seems that the disease, of which I am now about to treat, has been familiar, for a long time, to the farmers & graziers, of England. They observed that a certain species of sores, that occasionally appeared, upon the hands & arms of milkers, prevented their taking the Small Pox. It seem to me very singular, that this important fact should have been permitted, to lie dormant so long, and that some one, to whom it was so familiar, did not suggest a proper application of it. This was reserved for Dr. Jenner; to whom it has proved a source of splendor, & ^{reputations} ~~reputation~~, he perhaps but little anticipated. He found that matter taken from these sores, or the udders of cows, was fully competent, to secure the human constitution, from the destructive operation of the Small Pox. I have previously stated, that this celebrated physician, had no pretensions to the discovery, of the Vaccine disease, it is far from my intention, to detract from the celebrity, he has so justly acquired: much is

[Faint, mostly illegible handwriting on the left page of an open manuscript. The text appears to be a letter or a formal document, with some words like "I have" and "I am" visible.]

is certainly doing
nothing else
He was doubtless
a failure
How very
Doct: seems
for brevity
play & ego
opposed to
this project
Vanderden
effect state
at compo
I should
I have been
found upon
were already
capacities
this design,
impropriety
of other work
foreland I w
I was part of
of Coast, Pa.
making this
be pursued
know how
completely un-
late, & is in all

is certainly due, to the ingenuity, perseverance, & integrity, which he evinces, in
observing, illustrating and maintaining it, in opposition to a host of adversaries.
He was doubtless aware of the obloquy, that would attend to his character from
failure. He would, probably, have ^{been} rendered, for his credulity, by
those very persons, who are now most clamorous in his praise.
Doct. Jenner, however, is not the only one, entitled to our thanks
for braving the consequences of a failure. Professor Cuvier dis-
plays equal boldness. He for a long time stood alone, and
opposed & ultimately vanquished, by facts and experiments,
the prejudices & scepticism of his countrymen.

I am sensible that I ought to apologise for this very imper-
fect state, in which I venture to exhibit this, my first atten-
at compositions. It might very reasonably be expected, that
I should endeavour to confirm, by experiments, the opinion
I have ventured to suggest. Such was my intention; but I
found upon investigation, that several which I had contemplated,
were already before the Public. - Unfortunately, I could not
experiment upon myself; since it very rarely happens, that
this disease, can be induced twice, in the same person; & the
impropriety of involving the health, perhaps the existence,
of others, in experiments, the issue of which could not be
foretold with certainty, was too forcible to be withheld.
I was particularly anxious to confirm or disprove the experiment
of Doct. Carpenter of Lancaster, upon the cow. The difficulty of
making the attempt, must be my excuse, for its omission. It will
be perceived that I have assumed the fact as correct, as far as I
know there is no reason to doubt his relation; it accords, very
completely with the view of the disease, that I have ventured to
take, & is in other respects strictly consonant to probability.

If I believe
a doctrine is
from Henry
is the certain
obly, & is any
I have in dea
opinion, who
undoubtedly, a
not to intention
ally worth to
to which, the
to the preparat
mediate, entire
I imperfect.

Such as it is
It - to Clement

If future investigation shall shew, that the opinion I have adopted is incorrect, I shall cheerfully renounce it. I am very far from being needy, to this, or any other opinion. My sole object is the attainment of truth: & I shall esteem myself particularly obliged to any one, who will point out my deviations from it. I have endeavoured, to deal candidly, & impartially, with those opinions, which I have had occasion to touch upon. If I have, inadvertently, neglected to do this, it must be imputed to oversight, & not to intention.

My youth & inexperience, precluded deep research; superadded to which, the extreme shortness of the term, unavoidably, allotted to the preparation of this essay, in the midst of pursuits more immediately interesting, has contributed to render it extremely crude & imperfect.

Such as it is — "with all its imperfections on its head" I submit it — to Clemency rather than justice. —

The original
of the *S. S. S.*
account of the
There was de
is frequently
It is an expla
its common
issued, as tim
kind. The of
body (after
of) which be
A highly pro
In this case
nothing is pe
servants, the
design to the
mentioned, &
bears his heart
matter, etc. a
happens that
even to the de
of the little
Some have
The following
of the matter
of Hunt (boat)
employed as a
which might be

An Essay &c.

The origin of this Pock is involved in considerable obscurity: as Dr. Sower has given a very minute, & apparently, a very accurate account of it, I shall transcribe his words, they are as follows:

"There is a disease to which the horses or the state of Somersetshire is frequently subject. The Farmers have termed it the Grease. It is an inflammation and swelling of the Lint, accompanied at its commencement, with small marks or figures, from which issues a transparent fluid possessing properties of a very peculiar kind. This fluid seems capable of generating a disease in the human body (after it has undergone a modification I shall presently speak of) which bears so strong a resemblance to Small Pox, that I think it highly probable it may be the source of that disease."

In this County a great many ~~common~~ kept, and the office of milking is performed indiscriminately, by the men and maid servants. One of the former having been appointed to apply dressings to the lint of the horse affected with the malady, I have mentioned; & not paying due regard to cleanliness, inadvertently, bears his part in milking the cow, with some part of the infectious matter still adhering to his fingers. When this is the case, it frequently happens, that the disease is communicated to the cow, and from the cow to the dairy maids, which spreads through the farm, and the most of the cattle & domestics feel its unpleasant consequences."

Now, I have stated the circumstances of this opinion of Dr. Sower.

The following, are perhaps, the most prominent objections to it.

1. The matter of Grease will not become the subject of even the most of Small Pox. It very rarely ulcerates, or even inflames, the hands of those employed in dipping the hoofs of horses, & dabbing under the affluents which might reasonably be expected, if it was connected with the latter.

See Conn: Practical Observation of these Rocks page 13.

is clearly ascribed to it.

13. Dr. Woodville has, moreover, by experiment, as far as negative experiments, tends to prove, that the vaccine disease, cannot be induced in the body, even by vaccination with the matter of Cowpox. I am aware that a celebrated surgeon is said to have actually succeeded, in producing this disease artificially, in a cow, by removing a scab from the teat, and applying the virus, blackish matter of Cowpox to the abraded surface of the cow. This experiment, in my opinion, proves very little: attempts were doubtless made in every possible form, & succeeded only in one instance.

It being, the only experiment, upon record, should induce us to proceed with caution and distrust. Others do not take this trouble; the virus matter of Cowpox, is applied to the sound & uninjured surface of a cow - it is never necessary to abrade the skin, nor inflammation and pus follows. The consequences, notwithstanding the force, with which it is induced accidentally, when experiments are made for the express purpose of settling the question: when the vaccination is performed by operators of unquestionable skill, & every other precaution taken to ensure success, one can only can be addicted, of its accomplishing its end. It is entirely improper to be extremely cautious of granting our assent to a simple experiment, involving a result of such magnitude, when if made with every attention, our laws seem every fresh to insure, still they are proved to be faulty. In like manner, it is most conformable to that circumspection, which should govern our decision, to take nothing for granted. The experiment seems to have been made by a veterinary surgeon, who perhaps does not deserve that care & attention upon it, that is essentially necessary, in investigation of this kind. Would it not be more reasonable to infer, that he was mistaken?

3. That the only disease, produced in the vaccinating man.

4. The opinion, has been advanced by some, that the vaccine disease, is a modification of small pox. Dr. Adams, I believe is of this number. Several very empty considerations, oppose this view of the operation of the

Dr. Hooper states that the session is sometimes attended with excitement. They will have seen one or two cases that very vividly show the result. That they are now a constitutional disease, is shown by a fact, common, according to Dr. Hooper, that is, a small child, during the course of the disease, by Dr. Hooper, is that several of any other case, refer to heat, as low as the system, continues under the operation of the kin. Pock.

Dr. Hooper states that the session is sometimes attended with excitement. They will have seen one or two cases that very vividly show the result. That they are now a constitutional disease, is shown by a fact, common, according to Dr. Hooper, that is, a small child, during the course of the disease, by Dr. Hooper, is that several of any other case, refer to heat, as low as the system, continues under the operation of the kin. Pock.

the opinion with
in which regard
General facts have
that considerably
more for benefit
Captain B. - a
last. At the time
a room, common
with General Pock.
and the situation
had as an object
that satisfaction
Pock. About the
one object with the
situation as the
object of, altogether.
I wish to be effect
imposed to the usual
very little alteration
I wish to be effect
the influence of the
referred to be seen
from, after the
although from the

... of the former, appear to be still more decisive.
I conclude that the former, is in my opinion, the most efficacious of the two.

The former, in fact, acts as a counterpoise, to the latter, support.

There is a strong resemblance in the official appearances of the two diseases.
They attain their acme, about the 7th day; they are both, eruptive, & constitute
a local disease.

They necessarily prevent each other; & there can be some few exceptions,
but as a general rule, it may be admitted.

They both may exist at the same time in the same constitution.
This opinion will scarcely be controverted. It must have occurred to every
one whose experience with the New York, has been at all considerable.
Several facts have occurred within the sphere of my own observation,
that completely establish it. They are so decisive, that I must be per-
mitted for briefly mentioning them.

Captain B. was confined in the goal at Baltimore in August
last. At this time, several criminals & runaway negroes, who were lodged
in a room, immediately beneath the apartment, he occupied, were ill
with Small Pox. He was immediately vaccinated, with small matter,
and the operation happily succeeded in both arms. The pustules progre-
ssed as regularly, & every other appearance, continued as if unobscured,
that sanguine hopes were entertained, of his exemption from Small
Pox. About the 10th day, however, when the areola was, perfectly, he
was seized with the complex fever. I was somewhat alarmed at his
relaxation, as the weather was intensely warm, & he was standing by
about 4, athletic. I experienced at the same time, an evident curtailment
in the effect of this collision, upon the two diseases. He wasbled &
cupped, & the usual remedies advised, to allay inordinate actions.
My little alteration was perceptible in the vaccine pustules, although
I watched their progress, with the utmost solicitude. On the other hand,
the influence of the Vaccine upon the Variolous process, was too
obvious to be overlooked. The crop of pustules, was very moderate, & the
fever, after the eruption made its appearance, comparatively inconsiderable,
although, from the causes I have specified, I had apprehended a violent &

I have observed
at the farm
Pop. of the
even within
the vacating
to the machine
in the 5th day
framed with ex
nature, but when
it was on one
one ft. above
Pop. the operation
impossibility of
"The way
they found
farm being in
of a final
of design
case, is obvious
the impossibility
various in the
are bottom
had the effect of
farm being, as to
the in the farm
something of the
the same term
to say the
to continue to be a
as usual of

the transitory attack.

I have already mentioned, that a severely running pyrexia, even coming at the same time, a minority of whom, even still survivors of the small Pox, of their lives or at least the infection, rather than any they even incurred. The condition of the pyrexia appeared at various stages of the vaccine pustules; & in every instance its violence was proportionate to the malignity of the small Pox. Thus, in the male Pox superinduced on the 5th day, from the infection of the vaccine matter, it was accompanied with considerable fever, & other symptoms of an unpleasant nature; but when it accompanied was protracted, till the fifteenth day, as it was in one instance, the eruptions, fever & were extremely mild. I might have been mistaken by a scabber's decision for the small Pox. The duration of the eruptions, however, & other circumstances, sufficiently indicate its nature.

It then seems appear to me, of considerable importance, inasmuch as they prove beyond controversy, that the two diseases may exist at the same time, in the same constitution. Prof. & have previously been stated of a similar nature.

A very simple argument in favour of the identity of the two diseases, is derivable from this fact. Mr. John Hunter long since, thought the impossibility of two actions of a different nature, existing simultaneously in the same part, term of the same sensation, & of experience, are followed on this account. Dr. Rush very emphatically remarks, had he could as readily conceive that a horse could trot & walk at the same time, as that two actions of a different nature, could subsist together in the same part. Now, this fact might be adduced, to prove the sameness of this opinion. A case much in point may be found in Dawson's Annals of Medicine, in which Syphilis was present in the osseous system, after the former subsided (& of my recollection serves very distinctly to illustrate the Allegory concerning their sameness). I have already stated, that Dawson can also be seen in Boerhaave's Medical Museum.

The famous experiment of Mr. Lohr (Huxley) the names
 of gonorrhea & phitis must be familiar to every one. It demonstrates
 the immense importance of a single experiment, judiciously conducted
 fairly & impartially, definite, since that of Mr. Hunter was decisive of
 it, & establishes a question of Pathology, as warmly contested & perhaps
 any other.
 I have Practical observations on the Cow Pox p. p. 14 & 15

I have seen
 modern the
 has never
 & certainly
 not equal to
 with a little
 hope very
 has also
 from others
 fact &
 there is a
 than believe
 hopeful that
 come various
 5. A sacrum
 Pop. & the
 it is true
 sufficiently
 accident in
 various small
 must & all
 The above
 from. They
 have been
 & some
 given that
 the most
 other is
 a little

modern the bacilli occur in a row. The correctness of this statement;
is also quite in accordance with the various results of the
examination of the various virus, & that if a virus was produced, I would
not expect the usual marks, that characterize Cox sack. A single
well attended experiment is sufficient to establish the principle. (B) of per
Cox very judiciously cautious as, against drawing positive conclusions, from
negative experiments. He goes on to observe, "we have on all reasoning drawn
from them, however plausible, falls to the ground, by this single positive
fact."

5th. There is a much greater resemblance, between Small pox & herpes
than between typhus & gonorrhoea, or between the last & diphtheria. It is
possible, that Franchese is a modification of Lues venerea; & then and
some reasons, for believing, that the last is an evanescent form of diphtheria.

6th. A saccin peab, taken from a person labouring under the
Pox & the bacilli occur at the same time, with produce the former.
It is true that the can will be considerably ameliorated, but it will remain
differently will definitely have no doubt of its nature. This fact was
mentioned in Baltimore during the last summer. Every particle of the
Baigouss matter was removed from the external surface of the
throat, & all other precautions taken, to obviate description.

The above are the principal arguments, that occur to me at the
time. My tendency, in my opinion, preponderate the reasons that
have been urged in favour of Dr Semmes' hypothesis. The origin of the
bacilli occur, still remains doubtful, & I am by no means very satis-
fied, that the opinion I have expressed is the true one. It seems to be
the most probable of any heretofore advanced, & I shall continue to
adhere to it, until Dr Semmes' opinion is completely established, or until
a better is substituted.

by some suffer
inches at a time,
and to prevent
the. It is said
a second judge
with habeas man
from the Bacc
is returned with
objection to this, a
is expected, when
the virus to be com
form in their pas
of the virus. The
sometimes to expe
has been reported

Various, some have been suggested, for preserving the virus. As it was by some supposed, that the variable qualities of the atmosphere, &c. &c. &c. actively, now cause instant & severe changes, to obliterate the aim, to preserve an uniformity of temperature I have been several of times, that seemed to answer the purpose very completely; but as for a I could judge, with very little advantage. It does not appear, that either heat or moisture, singly express, exert any considerable influence upon the Vaccine matter. It is now either preserved upon glass; or upon a saturated with it. Dr. Thresh prefers the point of a lancet, the principle objection to this is, the facility with which the point of the lancet is oxidated. When glass is used for this purpose, it is improper to permit the virus to become perfectly dry, if this precaution be neglected, the vaccine matter passing will be injured, which will destroy the activity of the virus. The seed is now generally prepared. It is now economical, & continues to infect a longer time, than when either of the above modes is resorted to.

It is difficult to determine with any degree of precision, the length of time, the virus will continue to infect. The temperature at which it is kept, exerts the most considerable influence upon it. Good results, in general, continue to produce the disease, in temperate weather, at the end of six months. It actively seems to diminish in the value of its action. A great number of experiments, would be required to determine this point, with absolute certainty.

Vaccination, has been performed in some ways, the throat can
be reached, with Dr Boyer pointed out the superior efficacy of the
rab. A very palatable objection might be urged against the employment
of the throat. The presence of an extensive body would necessarily irritate
the parts to suppurative inflammation, whereby the larynx &c. can
never be healed, from the freedom of common vaccination
few would be secured, on line of that simple plan which is uniformly proved

1791 in the
The first matter
perhaps superior
at all times is a
the practice. To
which we shall
of the constitution
to the master co
for 20 days.
Lennet's use of
usual adoption
Lennet's of phy
and the the
which is suffi
the change of co
very properly, any
experiments, and
power to provide
I have found
the most to eff
about the 1st of
one of the oldest
the external co
Lennet's, it is
follows. 2 drop
the matter, & co
The female, it
one that is over
hation at this
considerable I have
then a point as
admitted. All ex

in the bony matter.

The fluid matter is exempt from this objection, & when practicable is perhaps superior, to any other mode. But the impossibility of obtaining it at all times is an insurmountable impediment, to the general adoption of the practice. Dr. Ferriar has turned the 9th day, the same barrier. Beyond which we shall never venture. Subsequent experience, has shown the fallacy of this caution. It may be taken with equal propriety, on any day, as long as the matter continues fluid. Dr. Park has known it to continue fluid for 20 days.

Several years ago, Mr. Bryer recommended the scab. The almost universal adoption of this practice is a sufficient test of its superiority. The necessity of physicians defines upon a function. When the mind cannot see, for this purpose, it should be thrust obliquely under it. When it is difficult to remove for a short time: if retained immediately, the chance of communicating the disease is much diminished. Dr. Park has very properly, enjoined the observance of this precaution. From several specimens, made upon the Refers, it is apparent that our success would be greatly enhanced, by attending to his directions.

I have found it advisable to expose a larger surface, to the action of the virus. To effect this, I usually make lines or three parallel incisions, about the 9th of an inch in length, in an oblique direction, near the covering of the deltoid muscle, with the shoulder of a scab set. Previous to this, the external coat of the scab, should be carefully pared off, there is a great precaution, to observe. As soon as the virus has recently come over a scab. A drop of water should then be carefully incorporated with the matter, & introduced into the incisions.

In females, it may be proper, to insert the matter higher up the arm, that is over the belly of the deltoid. I might be apprehensive, that in action of this muscle, would increase the inflammation very considerably; I have not observed it.

When a patient is not at hand, a common dirty needle, is a very poor substitute. All unnecessary irritation should be carefully avoided. -

of the fine
the 23rd day
obtaining a list
of 15th day, a
to open 6 lines
the angle,
times much so
as fall off of
to do what m
The points of
inc. 11, 000
to the line, to a
in about the
line - still
the same
When the surface
commonly has
the into the
Egyptian as
to detect it, we
recognition &
tion of the
line opinion
not, substantially
comes into the
In a major
significant to an
day the problem
the problem w

The eruption subsides; a small red papule, is generally observable on the 2 or 3 day; it continues to enlarge gradually, & on the 4th or 5th, it usually contains a limpid fluid, makes its appearance on the 6th day, the areolar eruption; on the 8 or 9th the areola commences, & continues till the 13th day, at which time it is about the size of a dollar, & soon begins to begin & finally subsides, about the 14 or 15th day. About the declension of the areola, the pustules begin to dry, & generally on the 17th day, sometimes much earlier, the scab is perfectly formed. The crust in most instances falls off spontaneously, about the 26th day, but it may, commonly be detached much sooner.

The pruritus that supervenes about the 9th day, is sometimes very distressing. It is occasionally so considerable as to require the use of great quantities, to abstain from scratching. The constitutional disease, commencing about the same time, is characterized by those symptoms, that denote a mild grade of fever. It is increased or diminished by all those causes that augment or lessen the local affections.

When the inflammation is at its height, the glands of the axilla, are swollen only lumps & tender — or when the matter has been introduced into the lymph, the axillary glands, are enlarged and painful. This symptom, as far as means uniformly present. I have been unable to detect it, when every other symptom, accords, exactly, with the description I have just given. Most writers have imputed this affection of the axilla, to the absorption of the vaccine virus; perhaps this opinion is in some instances, well founded; but it certainly does not universally, in every instance, depend upon the passage of the virus into the circulation.

In a majority of the cases, that have fallen under my notice, it appeared to arise from the intensity of the inflammation supervening the pustule. Any considerable irritation, as scratching, or rubbing the pustule will bring it on; it arises from this cause, so frequently,

† Heat & Fire was formerly supposed to arise from the absorption of ferment matter. Few practitioners of the present day, entertain this opinion.

§ For a full and very accurate description, I must refer to Dr. Prædical Observations, page 18 & seq.

† The rapidity with which the fluid is excited, is truly astonishing when applied upon the exterior surface of the body. It is speedily dissipated by exhalations. In this state it has the appearance of a white, & B. crys. fallacious, & is of the colour of sugar cane. The celerity with which the aqueous humours, are accumulated, is caused by the operation of extracting the crystallum lens, is known.

§ Dr. Prædical mentions an appearance somewhat similar to the first, when the skin on part of the chest was rubbed, the skin, however, contained no other particles.

that must have been noticed by every physician. I have known inflammation & swelling of the parotid gland, the pain brought on by inflammation of the foot & ankle, induced by a sprain of the ankle. Ulcers of the extremities, are a frequent source. In like manner, the application of caustic to the chancre on the penis, has often induced it. It is scarcely necessary to state, that the use of the above stated articles, will promote the absorption of the venereal poison. These facts sufficiently prove, that the salivary gland is, in many cases, a source of absorption. But exclusion, of the support that may be drawn from analogy, this opinion quadrates very completely with experience. In speaking of Cancer, Dr. Lorry expressly says, that the impaction of the acellary glands, in cancer of the mammae, frequently depends upon sympathy; & in all the cases of vaccination, that I have seen, as far as my recollection extends, the violence of the affection, was proportioned to the intensity of the inflammation. Motion of the virus is absent even in warm weather, local injury is, even the most frequent cause of it. I will not venture to affirm, that it is never produced by absorption, but the circumstances I have just mentioned, have firmly convinced me, that it, in most cases, depends upon sympathy. The abscess is the organ, in which the symptoms usually succeed each other, when the disease is perfect, they are, however, greatly diversified, by various. A considerable time sometimes intervenes, between the invasion of the matter & the appearance of the disease. Dr. Cullen of Marcellus mentions an instance, in which a whole year elapsed. A premonitory inflammation, will sometimes destroy the disease in its virus, or so much as to prevent its most frequent appearance, as shown very much its nature. Local injury, as scratching the site in two ways - 1st In the inflammation, 2^d By supplying the article & affording air escape, to the matter the evening, when the virus is in the system, & is absorbed, or can be seen on part of a pusillule filled with a fluid perfectly white, with the powder of the same pusillule contained in a glass jar & this apper-

The influence
 proceeds from the
 outside, Man
 observes the
 sun, stars, &c.
 Cause of
 'vices' & 'virtues'
 1. From the
 2. From the
 3. From the
 4. From the
 5. From the
 6. From the
 7. From the
 8. From the
 9. From the
 10. From the
 11. From the
 12. From the
 13. From the
 14. From the
 15. From the
 16. From the
 17. From the
 18. From the
 19. From the
 20. From the
 21. From the
 22. From the
 23. From the
 24. From the
 25. From the
 26. From the
 27. From the
 28. From the
 29. From the
 30. From the
 31. From the
 32. From the
 33. From the
 34. From the
 35. From the
 36. From the
 37. From the
 38. From the
 39. From the
 40. From the
 41. From the
 42. From the
 43. From the
 44. From the
 45. From the
 46. From the
 47. From the
 48. From the
 49. From the
 50. From the
 51. From the
 52. From the
 53. From the
 54. From the
 55. From the
 56. From the
 57. From the
 58. From the
 59. From the
 60. From the
 61. From the
 62. From the
 63. From the
 64. From the
 65. From the
 66. From the
 67. From the
 68. From the
 69. From the
 70. From the
 71. From the
 72. From the
 73. From the
 74. From the
 75. From the
 76. From the
 77. From the
 78. From the
 79. From the
 80. From the
 81. From the
 82. From the
 83. From the
 84. From the
 85. From the
 86. From the
 87. From the
 88. From the
 89. From the
 90. From the
 91. From the
 92. From the
 93. From the
 94. From the
 95. From the
 96. From the
 97. From the
 98. From the
 99. From the
 100. From the

General Disease, a fever, in most cases, prevents the formation of
the genuine Vaccine. This is frequently observable, in children, labouring
under worms or other diseases.

Dr. Sulphur, has been recommended against it, owing to its power. The
reason assigned by its peculiar determination to the skin, producing an action
less incompatible with the existence of the Vaccine. Dr. Baile's very
recently, & rationally, ascribes the unsuitableness of persons using this article
to the disease, as the Hob, & not to Sulphur, which in domestic
use, is frequently used, for their removal. In confirmations of this
view, he relates one very particular case.

As frequently warm weather diminishes the intensity of the disease, in some cases, probably, of the perspiration being more
abundant, at that time, than at any other time, or, it may depend upon the
action exerted by the heat upon the surface. It may likewise arise, from
the matter being more liable to determination, during the summer months
than in cold, or temperate seasons. Dr. Smith has been unable to put it upon
the thermometer stood above 96°. The summer time is
the best to prevent Small Pox. It would doubtless admit a further degree of
heat, than the disease, has from the same cause.

It sometimes also, even an insusceptibility in the system to the disease,
which cannot be referred, to any of the causes above mentioned. & I
suppose, as insusceptibility, has been witnessed in Small Pox. & its cause, for a
long time eludes discovery. It seems probable that the fetus in utero, may
inherit the disease from its mother. Several facts might be adduced to
show, that this has actually occurred. It may yet be even attended still further
formed as a fact, that the fetus may labour under the Variolous
fever, in a healthy state of the mother. Dr. Jenner mentions several cases
of this kind, in one, which he quotes from Dr. Mead, a woman was delivered
of a dead child, "all over covered with pustules, a marbled spot, &c. &c. &c."
of the disease before it came into the world. & If then cases be correctly
taken, it will offer a rational solution of the difficulty, on a supposition

[illegible]

will, that will in most cases, prevent the vaccine disease.
Perhaps other causes may conspire to render our failures more frequent.
When then or any other causes have destroyed the pustule, I have deemed it
 prudent in every instance, to repeat the vaccination. Very little inconvenience
 experienced by the patient, from this cautious procedure: if the first operation
 is ~~successful~~ the system, the inflammation from the second, will disappear
 the 4 or 5th day. On the contrary, if the previous attempt has failed, a very
 great advantage is thereby gained. By this practice, many, have unquestionably
 been led to a repetition of the operation, without necessity, but when it is considered
 at the life of a fellow creature, may be propounded, by the omission of this
 vainly trifling, but really essential precaution, I am confident, that no physician
 will prize the time to trouble so laudably bestowed.

I am unacquainted with any one, infallible criterion, of the genuineness
 of this disease. The anula & central depression, taken conjointly are in
 my opinion, sufficient.

The small pox is easily distinguished from the vaccine disease. The former
 is an eruptive mark as follows. The vaccine pustule, is divided into
 2: its margin is elevated & its center depressed: it is simple & independent,
 & passes into a scab, without much pus. The scab, is firm, & hard, & consists
 of a dark brown colour. The variolous pustule, is often divided into
 2: its margin, is elevated & its center depressed: it is simple & independent,
 & passes into a scab, without much pus. The scab, is soft, & consists
 of a light brown colour. Its center is somewhat
 flattened.

They are alike seated between the epidermis & cutis verae.
 It has been proposed to employ Vaccinations as a remedy, for the removal
 of the disease, of a more dangerous, or disfigureable nature. As far as I
 know, the late Dr. Bocher of Ellery, has just suggested this practice.
 He succeeded in several cases of Hooping cough; & Dr. Rush has completely
 cured the progress of the same disease, by a similar remedy. It has not
 however, fallen into disrepute; probably from its having been employed
 (Perseus)

1. She frequently visits the Adena Asylum, more or less, for the cure of dangerous or obstinate diseases.

progress of the
 the inflation was
 with a view to
 the economic
 more power for
 come from me
 I think the pro
 the production of
 It seems to
 might have done
 suggested to
 I have never be
 Caldwell's dep
 indicate the s
 perhaps he was
 invariably give
 the influence of
 regard to the h
 of Ballman's
 reference with
 any important

immediately. Dr Cullen tells us that Putridity continued from habit, after
the inflammatory stage has been subdued. If vaccination be now administered
with a view to its curative effect, would not this be the proper time to make
the experiment? I should conceive it would. As the Hooping cough is a
more powerful disease, than the Pock, I should not anticipate much
success, from making the attempt, during its first or inflammatory stage.
I think the proposal very feasible; & that if properly managed, it might
produce some of considerable advantage in the treatment of diseases.

It occurs to me, during the last summer, that perhaps vaccination
might be advantageously employed, for the removal of some local diseases.
I suggested to Dr. Potter of Baltimore, the propriety of using it in the above
I have since heard that the same idea, has occurred to the physician of
Baltimore. Upon reflection, I am disposed to doubt the practicability of
inducing the vaccine disease, in a venereal or cancerous sore. It may
perhaps be used with advantage, in mild affections. The ring worm
invariably yields to it & it frequently cures the Itch, to some extent, under
its influence. I have this detail all the information, I am possessed of, in
regard to the Hooping Pock; ~~which~~ I am principally indebted to Dr. Smith
of Baltimore for the knowledge I have acquired of it. whose extensive
experience with this disease, has enabled him, to collect a number of
very important facts. -

[Faint, illegible handwritten text on the left page of an open book. The text appears to be a list or account, possibly related to the numbers on the right page.]

[Handwritten numbers and notes on the right page of the book.]

10
13
24
13
24
10
13
17
13